

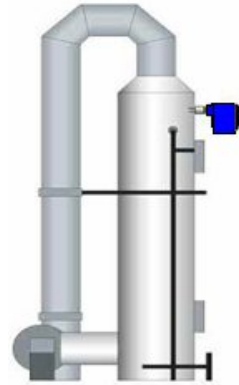


APPLICATION NOTE 364027: **HIGH LEVEL DETECTION in a DIGESTER TANK**

Pulp & Paper

**Application:** Overflow Protection, White Liquor in a Digester

**Product Used:** Kurz 6500 Series Flow-Level-Interface-Temperature Switch



**Description:** **Reliable and repeatable level control in the white liquor tank is critical in order to avoid overflows and/or contamination of the process upstream or downstream.**

**Problem:** **The combination of the process media and plant conditions cause instrument malfunctions and maintenance problems.** For a level switch to perform well in this application it must resist failures caused by:

- Corrosion and/or “sludging” damage to the sensor.
- Temperature extremes-depending upon location and operation the instrument will see high temperatures (including steam).
- Water contamination-feed water and cooling water often contains sediment and high mineral content.
- Electromagnetic interference.
- Difficult and/or controlled access points limit monitoring and daily maintenance.

**Solution:** **The Kurz 6500 Series Thermal Dispersion Flow. Level. Interface and Temperature Switch is used to provide the critical control for level in the white liquor tank.** The switch may be set to activate or deactivate the pump or feed valve using either of the independent relay contacts or the 4-20 mA analog output.

**Although often overlooked in LEVEL applications in favor of more complicated and more expensive technologies, Kurz thermal dispersion switches provide *digital repeatability tailored to your application* in a rugged package that is minimally affected by coating on the probe. The Kurz switch will not drift or seize and will not require regular adjustments.**

Easily accessible front panel controls and display make set-up fast and easy. Unlike float, paddle or gap switches, Kurz features all-welded sensors, no-moving-parts design, true digital electronics *with auto-diagnostic functions*, two independent relay timers, a bypass timer for auto pump restart, simultaneous process temperature monitor and a *4-20 mA analog output corresponding to the process level*.